

Fusion-1005

Five-in-one Integrated Processor



Intelligent controller



video switching matrix



Digital audio processing



Audio digital power amplifier



POE Switch



video Conference



Recording



Input/output interface



IPC input

PRODUCT OVERVIEW

The **Fusion-2009** is a high-efficiency five-in-one integrated processor designed to meet the essential needs of modern multimedia environments. Combining five core functions into a single streamlined unit, the Fusion-1005 simplifies system architecture, reduces cabling complexity, and enhances operational stability.

Compact yet powerful, the Fusion-1005 is an ideal solution for small to mid-sized smart classrooms, huddle rooms, training spaces, and digital learning setups. Whether it's for presentations, interactive sessions, or basic remote communication, the Fusion-1005 ensures reliable, user-friendly performance with excellent audiovisual integration.

KEY FEATURES

- Smart Centralized Control:** Integrated control of multimedia equipment via a conference tablet, enabling unified management of audio/video, conferencing, recording, broadcasting, and third-party peripherals.
- Standard Control Interfaces:** Supports RS232/485, IR, IO, and RELAY connections for common AV and automation devices.
- Zigbee IoT Protocol:** Enables wireless control of smart devices through Zigbee integration.
- Bi-directional Serial Communication:** Supports two-way control over a single serial link for seamless device interaction.
- Hybrid Control Design:** Combines wired and wireless IoT control, preventing interference and disconnection even in shielded environments.
- 4K Video Matrix Switching:** 4-in 2-out seamless 4K@60Hz video switching for fast and clear AV transitions.
- Digital Audio Interface:** Features 8-in/4-out configuration with network and HDMI audio routing.
- Built-in Amplifier:** Delivers 2×100W output power for direct speaker drive.
- Multi-Stream Local Recording:** Records 4–6 video streams simultaneously for meetings, training, or lectures.
- IPC Camera Integration:** Supports up to 12 IPC video inputs for live output, display, or recording.

APPLICATIONS

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| <ul style="list-style-type: none"> • Meeting Room • Courtrooms • Hotels | <ul style="list-style-type: none"> • Conference Center • Classrooms • Lecture Halls |
| <ul style="list-style-type: none"> • House of Worship • Training Rooms • All Hand Space | |

TECHNICAL SPECIFICATIONS

System Specifications

System Architecture	Industrial-grade embedded system, virus-resistant
Operating System	Embedded system (OS not specified)
Built-in PC	OPS computer with 16GB RAM, 512GB SSD
Display Control	Supports central control panel (various 10.1"/4" Android PoE or non-PoE options)
Central Control Functions	One-touch control for system power, signal switching, volume control, recording, broadcasting, remote call, environment control
Maintenance Interface	Web interface for configuration, upgrades, logs, remote O&M, Telnet debugging, USB restore
Energy Saving	Network sleep/wake, one-touch system shutdown

Technical Specifications

Main Stream	1080P@60
Preview Stream	CIF
HDMI Encoding	Choose from 3 local HDMI inputs
HDMI Decoding	1 channel output
Encoding/Decoding Bandwidth	512Kbps ~ 16Mbps
Audio Processing	AEC, AGC ,ANC/ANS, AFC, AM (Audio Mix Matrix) Dodger Ducker
Image Processing	2 Network Streams + 1 Local HDMI Input for Synthesis Output
IPC Camera Access	Supports RTSP video stream from 2 IP cameras
Third-party Platform Integration	RTMP push stream (to local play) RTSP pull stream (from external platforms)
Audio Input	6 channels Phoenix terminal (Mic/Line input), 48V phantom power supported
Audio Output	2 pairs of L/R stereo Phoenix terminal outputs
Video Input	3 x HDMI inputs (up to 4K60)
Video Output	3 x HDMI outputs (up to 4K60)
Control Interfaces	2 x RS-232 , 2 x RS-485 , 2 x Relay , 2 x I/O , 2 x IR
Amplifier Output	2 x 100W @ 8 Ohm 2 x 150W @ 4 Ohm
USB Ports	1 x USB Type-A 1 x USB Type-C
Network Interfaces	4 x PoE LAN ports 1 x WAN port 1 x SFP Fiber port 2 x WiFi Antennas
Power Switch	One-touch system switch, sleep/wake-up via network

TECHNICAL SPECIFICATIONS

Mechanical Specifications

Installation	3U rackmount (telecom standard)
Dimensions	437 mm (W) × 410 mm (D) × 132.5 mm (H)
Power Input	AC 100-240V, 50/60Hz
Power Consumption	Typical: 50W, Full Load: 750W
Operating Conditions	Temperature: 0-45°C Humidity: 10%-90% Altitude: ≤ 5000 meters

Rear View

